INDOOR ARENA AUDIENCE SCANNING (View on Links standard and state and controlled alone) OUTDOOR ARENA REFLECTIONS FROM STATIONARY MIRRORS OR MIRRORED SURFACES ☐ MUSEUM DOUTDOOR UNENCLOSED AREA 🔀 STATIONARY IRRADIATION OF ROTATING MIRROR BALLS, ETC. OTHER (Varios) SCANNING IRRADIATION OF ROTATING MIRROR BALLS, ETC PRODUCT IS INTENDED TO BE USED FIBER OPTIC PROJECTIONS AT ONLY ONE (, , ,) LOCATION FOG SMOKE, OR OTHER SCATTERING ENHANCEMENT EFFECTS AT A VARIETY OF (11111) LOCATIONS OTHER (1/4.7/1) _ ___ _ __ __ __ ___ OTHER (Specific) LASER RADIATION LEVELS

WAVE LENGTHS (nm)

PEAK POWER ITHING

300mWatt 458-515 Argon

9 IF ANY LASER RADIATION IS PULSED OR SCANNED. GIVE THE PULSE DURATION AND RATE AND SCANNING FREQUENCY AND AMPLITYOE

Scanning Frequency 0-35K, Scanning Amplitude 0-45 degrees

10. REASON FOR REQUESTING VARIANCE

COMPLIANCE WITH THE LIMITS OF 21 CFR 1040 11(c) WOULD RESTRICT THE INTENDED USE OF THE PRODUCT BECAUSE COMPLIANCE POWER TO THE EXTENT THAT THE DESIRED EFFECTS WOULD NOT BE SUFFICIENTLY VISIBLE

OTHER OR ADDITIONAL EXPLANATION . YAS

LASER MEDIUM IAN HE SE EN 7 "

FORM FDA 3147 (3/87)

Apr-2	_	AC	9:52 From- CESSIBLE EMISSION LIMITS IS PROPOSED TO DEVIATE F			T-3 Ollows.	79 P.03/04	F-718
12.	×	EX	TAGES TO BE DERIVED FROI SER LIGHT SHOWS AND DIS CESS OF THE LIMITS IMPOS HER OR ADDITIONAL ADVAN	PLAYS ARE ACCEPTED ED BY 21 CFR 1040.11(c)	IS NECESSARY TO ACHI	ERTAINMENT AND THE A EVE THE REQUIRED EFA	ARTS USE OF PO ECTS IN THESE	OWER LEVELS IN MEDIA
13.			N THE ALTERNATE MEANS C			•	ly in item 14 "Rem	iarka." justity dny bokes
	not a.	checi	ked, using additional sheets as in ALL LASER PRODUCTS, SY TIONS OF THIS VARIANCE VIDED FOR SUCH PURPOSI	STEMS, SHOWS, AND PI AND WILL BE REPORTE	ROJECTORS WILL BE CER D AS REQUIRED BY 21 CF	TIFIED TO COMPLY WIT	JSING THE REPO	RTING GUIDES PRO-
	Þ.	Þ(EFFECTS NOT SPECIFICAL ADDED UNTIL AN AMENDM APPLICABLE, HAVE BEEN S	LY INDICATED IN THIS I	ARIANCE APPLICATION	WILL NOT BE PERFORM	ED. NO OTHER E	FFECTS WILL BE
	c .	×	SCANNING, PROJECTION, (ACCESSIBLE UNCONTROLL ADDED ATMOSPHERIC SCA	LED AREAS WILL NOT B	E PERMITTED EXCEPT FO	ADIATION (LIGHT SHOW IR DIFFUSE REFLECTION	RADIATION) INTO	D AUDIENCE OR OTHER T THE ATMOSPHERE,
	đ,	P	LASER RADIATION LEVELS ANY SURFACE UPON WHIC METERS BELOW OR IN LAT PERFORMERS, AND EMPLO EXPOSED TO RADIATION A	TH PERSONS OTHER THIS TERAL SEPARATION FRO TYPES WILL NOT BE REC	an operators, perfor DM ant place where st Duired or allowed to	MERS, OR EMPLOYEES JCH PERSONS ARE PER VIEW RADIATION ABOV	ARE PERMITTED MITTED TO BE. C	TO STAND OR 2.5 PERATORS
	e	K	ANT PRODUCT WHICH RELI SAFEGUARD SYSTEM WHIC THE APPLICABLE LIMIT.	es on scanning to m H directly senses sc	EET ACCESS, EXPOSURE, CANNER MOTION AND WI	OR PRODUCT CLASS LIN HICH WILL REACT FAST	NTS WILL INCOR ENOUGH TO PRI	Porate a scanning Eclude exceeding
	t.	F	ALL LASER LIGHT SHOWS S	SHALL BE UNDER THE E	DIRECT AND PERSONAL C	ONTROL OF TRAINED, O	COMPETENT OPE	RATOR(S). THE
			(1) IMMEDIATELY TERMINAT	TE THE EMMISSION OF I	LIGHT SHOW RADIATION	IN THE EVENT OF ANY	UNSAFE CONDIT	iOn;
			(2) BE LOCATED WHERE AL	L BEAM PATHS CAN BE	DIRECTLY OBSERVED AT	ALL TIMES, AND		
			(3) BE AN EMPLOYEE OF TH	IE VARIANCE HOLDER V	VHO WILL BE RESPONSIB	LE FOR THE TRAINING	AND CONDUCT	F THE OPERATOR.
	g	K	THE MAXIMUM LASER PRO.	LECTOR OUTPUT POWE	WILL NOT EXCEED THE	LEVEL REQUIRED TO O	BTAIN THE INTER	DED EFFECTS.
	h.	Ŕ	THE PROJECTION SYSTEM (SECURELY MOUNTED OR IN AS AN INHERENT PART OF	imobilized to preven	it unintended moveme	NT OR MISALIGNMENT.	BEAM LIMITERS	WILL BE PROVIDED
	1.	中	LASER PROJECTORS WILL I UNTIL THE RECIPIENT DEMI PRODUCE LASER LIGHT SH	ONSTRATES THAT THEY	HAVE A VARIANCE IN E	R AN AGREEMENT OF S FECT AT THE TIME OF	ALE, LEASE, OR DELIVERY THAT	LOAN UNLESS AND PERMITS THEM TO
	J :	1	IN ADDITION TO THE REQUIPMENTIES WHO PURCHASE, IN OPERATION AND WHICH EXCUBMIT THE REQUIRED REPANY LASER LIGHT SHOWS	LEASE, OR BORROW TH PLAIN THE RESPONSIB	E EQUIPMENT, ADEQUATI LLITY OF THE RECIPIENT	E USER'S INSTRUCTION! AS AN INDEPENDENT LI	S FOR SAFE INST IGHT SHOW MAN	ALLATION AND JUFACTURER TO
	k,	叉	THE REQUIREMENTS OF 21 ALIGNMENT, TESTING, AND	CFR 1002.30(8X1) AND (2 PERFORMANCE OF EAC) WILL BE ACCOMPLISHE On Show, These Proce	D THROUGH THE USE O DURES WILL BE IN SUFI	F WRITTEN PROG	CEDURES FOR SETUP,

PLIANCE WITH 21 CFR 1040 10, THE CONDITIONS OF THIS VARIANCE, AND THE CONTROL OF ACCESS TO RADIATION AREAS USING THE PROCEDURES DESCRIBED IN THE ANSI Z136 1 STANDARD FOR THE SAFE USE OF LASERS (AMERICAN NATIONAL STANDARDS INSTITUTE, 1430 BROADWAY, NEW YORK, NY 10018) OR ANY OTHER EQUIVALENT USER CONSENSUS STANDARD AND, WHERE APPLICABLE, STATE OR LOCAL REQUIREMENTS LASER RADIATION AREAS WHICH CAN CONTAIN RADIATION LEVELS ABOVE THE LIMITS SPECIFIED IN 21 CFR 1040.11(c), WILL BE CLEARLY IDENTIFIED BY THE POSTING OF WARNING SIGNS ANDIGH RESTRICTING ACCESS THROUGH PHYSICAL MEANS (SUCH AS PRESSURE SWITCHES, PHOTOCELLS, BARRIERS, GUARDS, ETC.). THESE REQUIREMENTS APPLY TO TEMPORARY AREAS (SUCH AS DURING SET-UP AND ALIGNMENT PROCEDURES) AND TO FINAL OR PERMANENT AREAS THE VARIANCE HOLDER WILL RETAIN THE RECORDS OF THESE PROCEDURES AND THE RESULTS OF ALL TESTS AS REQUIRED BY 21 CFR 1002.31. A COPY OF THE VARIANCE APPLICATION, THE APPROVAL LETTER, CURRENT PROCEDURES, AND RECORDS RELATING TO EACH PARTICULAR SHOW WILL BE WITH

THE OPERATOR OR OTHER RESPONSIBLE INDIVIDUAL AND WILL BE MADE AVAILABLE FOR INSPECTION BY FDA AND OTHER RESPONSI-BLE AUTHORITIES. PHUPOSED EFFECTS INCLUDI: A STATEMENT OF THE MAXIMUM POWER OUTPUT I TODED SUCH NOTIFICATIONS WILL BE MADE, BUT NOT NECESSARILY BE LIMITED, TO:

- (1) THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH, OFFICE OF COMPLIANCE (HFZ-312), 8757 GEORGIA AVE. SILVER SPRING, MD 2091B, PROVIDING THE INITIAL AND CLOSING DATES FOR FIXED INSTALLATIONS AND THE ITINERARY FOR MOBILE SHOWS. IN ADDITION, UNLESS ALL ASPECTS OF EACH SHOW HAVE BEEN REPORTED AND THE ACCESSION NUMBERS CLEARLY REFERENCED, EACH NOTICE WILL INCLUDE DETAILED DESCRIPTIONS OF EACH SHOW AND A LISTING OF ALL EFFECTS TO BE PERFORMED IN SUFFICIENT DETAIL TO CONFIRM COMPLIANCE WITH THE REGULATIONS AND THIS VARIANCE
- (2) THE FEDERAL AVIATION ADMINISTRATION (FAA) FOR ANY PROJECTIONS INTO OPEN AIRSPACE AT ANY TIME (I E , INCLUDING SET-UP) ALIGNMENT, REHEARSALS, PERFORMANCES, ETC.) IF THE FAA OBJECTS TO ANY LASER EFFECTS, THE OBJECTIONS WILL BE RESOLVED AND ANY CONDITIONS REQUESTED BY FAA WILL BE ADHERED TO, IF THESE CONDITIONS CAN NOT BE MET. THE OBJECTIONABLE EFFECTS WILL BE DELETED FROM THE SHOW
- (3) STATE AND LOCAL RADIATION CONTROL OFFICES/AGENCIES FOR ALL SHOWS TO BE PERFORMED WITHIN THEIR JURISDICTIONS ALL REQUIREMENTS OF STATE AND LOCAL LAW WILL BE SATISFIED AND ANY OBJECTIONS RAISED BY LOCAL AUTHORITIES WILL BE RESOLVED OR THE EFFECTS DELETED. (LISTS OF FEDERAL AND STATE OFFICES ARE AVAILABLE FROM THE CENTER FOR DEVICES AND RADIOLOGICAL HEALTH UPON REQUEST.)

14.	- 01	Ем	a 1	٥u	C

CERTIFICATION

I CERTIFY that all of the above information and statements are true, complete, and coffect to the best of my knowledge and acknowledge that my variance application may be denied or my variance may be revoked if this application is found to be false, misleading, or incorrect in any material way. I have submitted and will submit all reports required by 21 CFR 1002.10 and 1002.12 on the laser equipment and show(s). I further understand that I may be required by regulation or by the Director, Center for Devices and Radiological Health, to supply such other information as may be necessary to evaluate and act on this application.

15 SIGNATURE

16. NAME (Type of Print)

17. TITLE

A. Stefenelli, ?

President

FDA/CDRH OFFICE OF COMPLIANCE DIVISION OF ENFORCEMENT III 2098 GAITHER ROAD, ROCKVILLE, MD 20850

FACSIMILE TRANSMISSION SHEET (301) 594-4672 FAX NUMBER (301) 594-4646 TELEPHONE

10: Jennie Butler, Pockets Management Br.

FAX NUMBER: 301-827-6870

FROM: Dale Smith

SUBJECT: Variance

DATE: 4/23/99

Number of pages: Coversheet + 3

Confirmation Number: (301) 594-4646

COMMENTS:

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